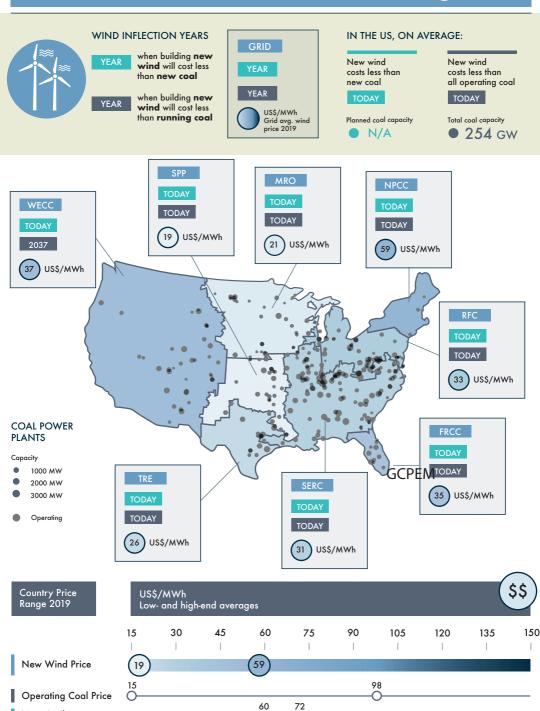
# WIND VS COAL POWER IN THE UNITED STATES

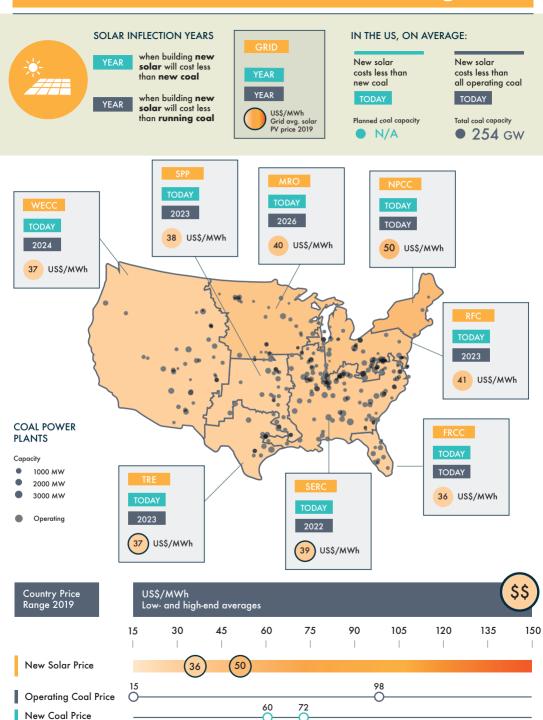
**New Coal Price** 





# SOLAR PV VS COAL IN THE UNITED STATES





# WIND VS COAL POWER IN CHINA





#### WIND INFLECTION YEARS

when building **new**wind will cost less
than **new coal** 

US\$/MWh

YEAR when building new wind will cost less than running coal

GRID YEAR

VEAD

US\$/MWh Grid avg. wind price 2019

## IN CHINA, ON AVERAGE:

New wind costs less than new coal

TODAY

Planned coal capacity

• 106 gw

New wind costs less than all operating coal

TODAY

Total coal capacity

• 982 GW





New Wind Price

Operating Coal Price

New Coal Price

# SOLAR PV VS COAL IN CHINA





#### SOLAR INFLECTION YEARS

when building new solar will cost less than new coal

when building new YEAR solar will cost less than running coal YEAR

Grid avg. solar PV price 2019

### IN CHINA, ON AVERAGE:

New solar costs less than new coal

Planned coal capacity

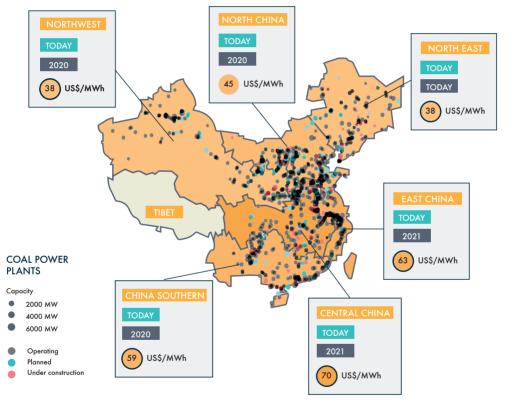
• 106 gw

New solar costs less than all operating coal

2020

Total coal capacity

• 982 gw





# WIND VS COAL POWER IN INDIA





#### WIND INFLECTION YEARS

YEAR when building new wind will cost less than new coal

YEAR when building new wind will cost less than running coal

# YEAR YEAR US\$/MWh Grid avg. wind price 2019

# IN INDIA, ON AVERAGE:

New wind costs less than new coal

TODAY

Planned coal capacity

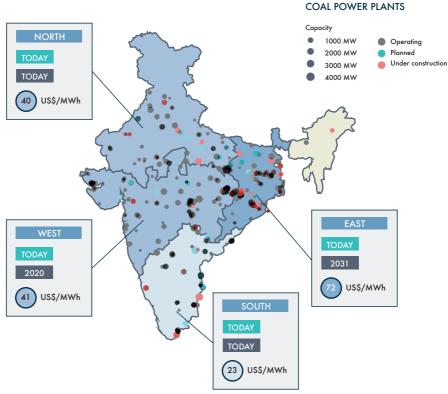
29 GW

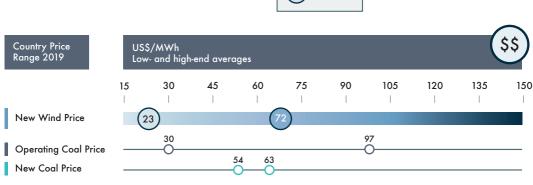
New wind costs less than all operating coal

2022

Total coal capacity

• 222 GW





# SOLAR PV VS COAL IN INDIA





#### **SOLAR INFLECTION YEARS**

year when building new solar will cost less than new coal

YEAR when building new solar will cost less than running coal

# YEAR YEAR

US\$/MWh Grid avg. solar PV price 2019

# IN INDIA, ON AVERAGE:

New solar costs less than new coal

TODAY

Planned coal capacity

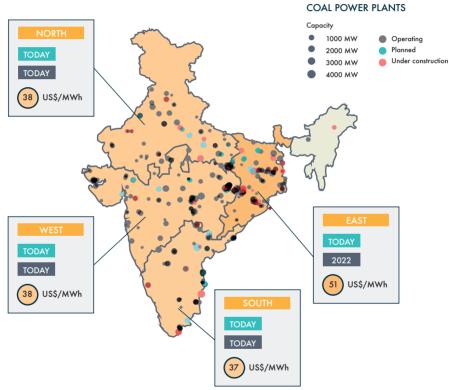
• 29 gw

New solar costs less than all operating coal

2020

Total coal capacity

• 222 GW





# WIND VS COAL POWER IN JAPAN





#### WIND INFLECTION YEARS

YEAR when building new wind will cost less than new coal

YEAR when building new wind will cost less than running coal

# GRID YEAR YEAR USS/MWh Grid avg. wind price 2019

# IN JAPAN, ON AVERAGE:

New wind costs less than new coal

TODAY

Planned coal capacity

**3** gw

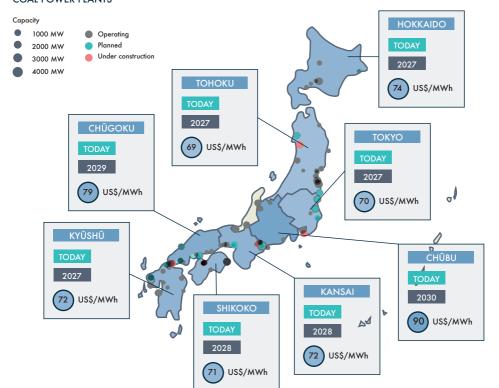
New wind costs less than all operating coal

2028

Total coal capacity

• 45 GW

# COAL POWER PLANTS



Country Price Range 2019

US\$/MWh Low- and high-end averages

15 30 45 60

New Wind Price

Operating Coal Price

New Coal Price

# SOLAR PV VS COAL IN JAPAN





#### SOLAR INFLECTION YEARS

when building new solar will cost less than new coal

YEAR when building new solar will cost less than running coal

YEAR
YEAR
US\$/MWh
Grid avg. solar
Py price 2019

#### IN JAPAN, ON AVERAGE:

New solar costs less than new coal

2023

Planned coal capacity

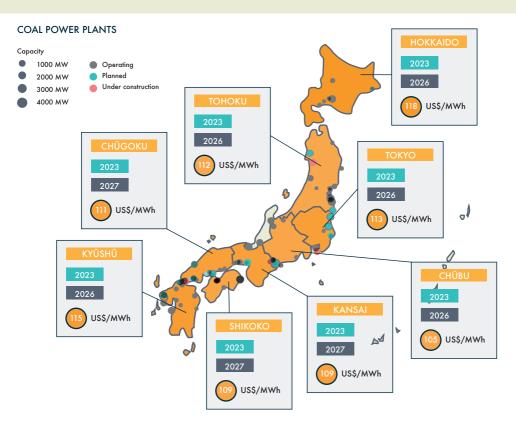
3 GW

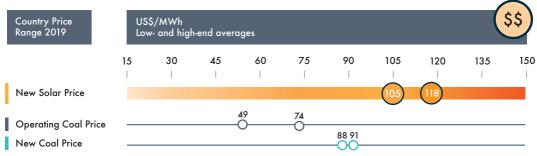
New solar costs less than all operating coal

2026

Total coal capacity

• 45 gw





# WIND VS COAL POWER IN TURKEY





#### WIND INFLECTION YEARS

YEAR w

when building **new**wind will cost less
than **new coal** 

YEAR

when building **new**wind will cost less
than running coal

# GRID

YEAR

YEAR

US\$/MWh Grid avg. wind price 2019

### IN TURKEY, ON AVERAGE:

New wind costs less than new coal

TODAY

Planned coal capacity

32 GW

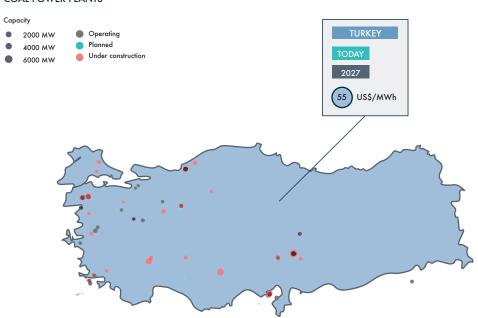
New wind costs less than all operating coal

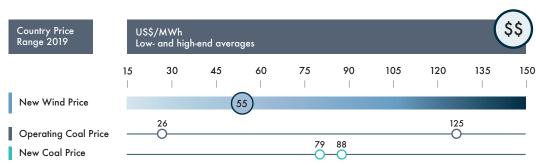
2027

Total coal capacity

• 19 gw

#### **COAL POWER PLANTS**





# **SOLAR PV VS COAL IN TURKEY**





#### SOLAR INFLECTION YEARS

YEAR when b

when building **new solar** will cost less
than **new coal** 

YEAR when building new solar will cost less than running coal

GRID

YEAR

YEAR

US\$/MWh Grid avg. solar PV price 2019

# IN TURKEY, ON AVERAGE:

New solar costs less than new coal

TODAY

Planned coal capacity

32 gw

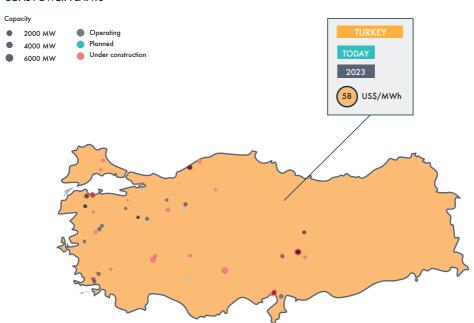
New solar costs less than all operating coal

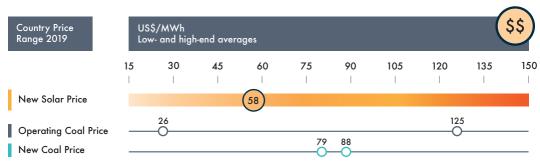
2023

Total coal capacity

• 19 gw

#### **COAL POWER PLANTS**





# WIND VS COAL POWER IN THE ASEAN COUNTRIES





## WIND INFLECTION YEARS

YEAR w

when building **new**wind will cost less
than **new coal** 

YEAR

when building new wind will cost less than running coal

# GRID

YEAR

YEAR

US\$/MWh Grid avg. wind price 2019

### IN ASEAN, ON AVERAGE:

New wind costs less than new coal

2020

Planned coal capacity

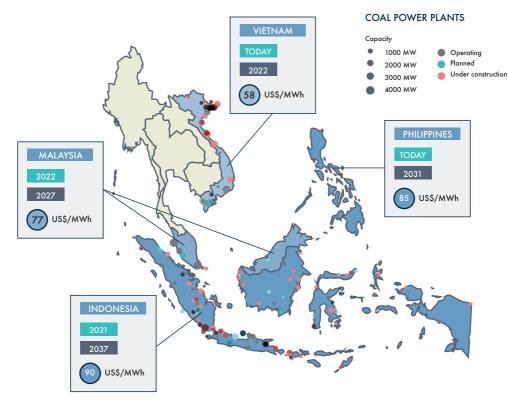
55 GW

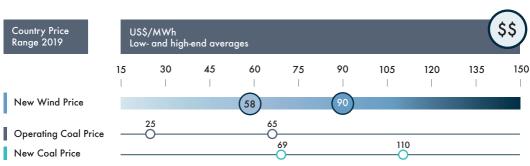
New wind costs less than all operating coal

2036

Total coal capacity

66 GW





# SOLAR PV VS COAL IN THE ASEAN COUNTRIES





#### SOLAR INFLECTION YEARS

when building new solar will cost less than new coal

when building new YEAR solar will cost less than running coal

# YFAR

US\$/MWh Grid avg. solar PV price 2019

# IN ASEAN, ON AVERAGE:

New solar costs less than new coal

Planned coal capacity

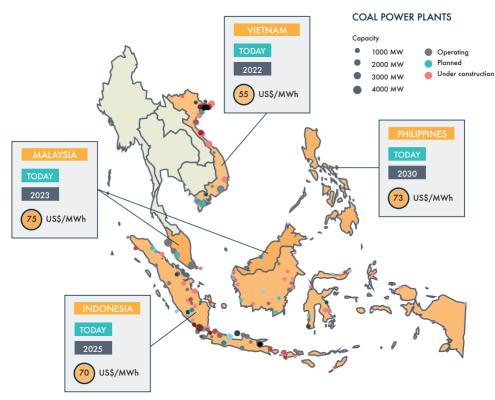
55 gw

New solar costs less than all operating coal

2027

Total coal capacity

66 GW





# WIND VS COAL POWER IN EUROPE





#### WIND INFLECTION YEARS

YEAR when building new wind will cost less than new coal

YEAR when building new wind will cost less than running coal

GRID YEAR YEAR

US\$/MWh Grid avg. wind price 2019

#### IN EUROPE, ON AVERAGE:

New wind costs less than new coal

TODAY

Planned coal capacity

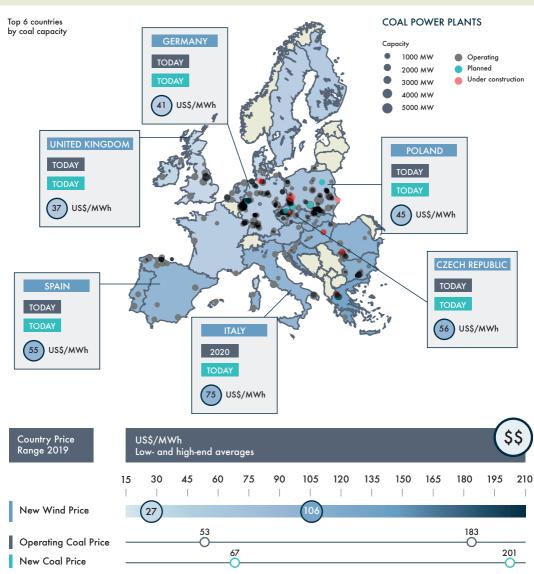
3 GW

New wind costs less than all operating coal

TODAY

Total coal capacity

149 gw



# SOLAR PV VS COAL IN EUROPE





#### SOLAR INFLECTION YEARS

YEAR when but

when building **new solar** will cost less
than **new coal** 

YEAR when building new solar will cost less than running coal

# GRID

YEAR

YFAR

US\$/MWh Grid avg. solar PV price 2019

## IN EUROPE, ON AVERAGE:

New solar costs less than new coal

TODAY

Planned coal capacity

3 GW

New solar costs less than all operating coal

TODAY

Total coal capacity

• 149 gw

